

Title (en)

IMPROVEMENTS IN A CELL ASSEMBLY SAFETY AND AN ASSOCIATED SYSTEM

Title (de)

VERBESSERUNGEN AN DER SICHERHEIT EINER ZELLENANORDNUNG UND ZUGEHÖRIGES SYSTEM

Title (fr)

AMÉLIORATIONS APPORTÉES À LA SÉCURITÉ D'UN ENSEMBLE DE CELLULES ET SYSTÈME ASSOCIÉ

Publication

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Application

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Priority

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Abstract (en)

According to an aspect of the present invention there is provided a cell assembly comprising: a cell; a cell enclosure configured to substantially surround the cell; and one or more sensors for monitoring characteristics of the cell to determine a safety value of the cell; wherein one of the one or more sensors comprises one or more acoustic sensors associated with the cell assembly and configured to sense one or more acoustic signatures representing respective electrochemical reactions in the cell.

IPC 8 full level

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Citation (search report)

- [X] US 2013091950 A1 20130418 - BERNARD JULIEN [FR]
- [X] US 9793581 B2 20171017 - HENRICI FABIAN [DE], et al
- [A] US 2015091820 A1 20150402 - ROSENBERG ILYA DANIEL [US], et al
- [X] SGROI MAURO FRANCESCO ET AL: "Smart batteries: requirements of the automotive world", 2021 IEEE INTERNATIONAL WORKSHOP ON METROLOGY FOR AUTOMOTIVE (METROAUTOMOTIVE), IEEE, 1 July 2021 (2021-07-01), pages 42 - 47, XP033953147, DOI: 10.1109/METROAUTOMOTIVE50197.2021.9502851

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